## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently amended) A frequency separating filter having a deeplow-pass branch for low frequency signals, particularly of analog communication systems, and a high-pass branch for high frequency signals of digital communication systems, with multiple inductive components with magnetic cores, wherein the high-pass branch comprises a pass range above about 20 kHz and further comprises at least one component with a magnetic core made of an amorphous or nanocrystalline alloy.
- 2. (Previously presented) The frequency separating filter according to claim 1, wherein the alloy has the composition  $Co_0(Fe_{1-c}Mn_c)_bNi_dM_cSi_xB_yC_z$ , with M indicating one or more elements from the group Nb, Mo, Ta, Cr, W, Ge, and P and a+b+d+e+x+y+z=100, with

Co: 
$$a = 40 - 82 \text{ at\%},$$
  
Fe+Mn:  $b = 3 - 10 \text{ at\%},$   
Mn/Fe:  $c = 0 - 1,$   
Ni:  $d = 0 - 30 \text{ at\%},$   
M:  $e = 0 - 5 \text{ at\%},$   
Si:  $x = 0 - 17 \text{ at\%},$   
B:  $y = 8 - 26 \text{ at\%},$   
C:  $z = 0 - 3 \text{ at\%},$   
15 < e+x+y+z < 30.

3. (Previously presented) The frequency separating filter according to claim 2, wherein the following relationships apply:

a = 50 - 82 at%, Co: Fe+Mn: b = 3 - 10 at%, Mn/Fe: c = 0 - 0.5, Ni: d = 0 - 20 at%, e = 0 - 3 at%, M: x = 1 - 17 at%, Si: y = 8 - 20 at%, B: z = 0 - 3 at%, C: with 18 < e+x+y+z < 25.

4. (Previously presented) The frequency separating filter according to claim 1, wherein the alloy has the composition  $Fe_aCu_cM_fSi_dB_c$ , with M indicating an element from the group Nb, W, Ta, Zr, Hf, Ti, Mo, or a combination of these and a+c+f+d+e=100%, with

Fe: 
$$a = 100\% - c - f - d - e$$
,  
Cu:  $c = 0.5 - 2$  at%,  
M:  $f = 1 - 5$  at%,  
Si:  $d = 6.5 - 18$  at%,  
B:  $e = 5 - 14$  at%,  
with  $d + e > 18$  at%.

5. (Previously presented) The frequency separating filter according to claim 4, wherein the following relationships apply:

Cu: 
$$c = 0.8 - 1.2 \text{ at\%},$$
  
M:  $f = 2 - 3 \text{ at\%},$   
Si:  $d = 14 - 17 \text{ at\%},$   
B:  $e = 5 - 14 \text{ at\%},$ 

with d + e = 22 - 24 at%.

6. (Previously presented) The frequency separating filter according to claim 1, wherein the alloy has the composition  $Fe_xZr_yNb_zB_vCu_w$ , with x + y + z + v + w = 100 at%, with

Fe: x = 100 at% - y - z - v - w,

Zr: y = 2 - 5 at%,

Nb: z = 2 - 5 at%,

B: v = 5 - 9 at%,

Cu: w = 0.5 - 1.5 at%,

with y + z > 5 at% and y + z + v > 11 at%.

7. (Previously presented) The frequency separating filter according to claim 6, wherein the following relationships apply:

Fe: x = 83 - 86 at%,

Zr: y = 3 - 4 at%,

Nb: z = 3 - 4 at%,

B: v = 5 - 9 at%,

Cu: w = 1 at%,

with y + z = 6 - 7 at%,

and y + z + v > 12 - 16 at%.

8. (Previously presented) The frequency separating filter according to claim 1, wherein the alloy has the composition  $Fe_xM_yB_zCu_w$ , with M indicating an element from the group Zr, Hf, Nb and x + y + z + w = 100 at%, with

Fe: x = 100 at% - y - z - w,

M: y = 6 - 8 at%,

B: z = 3 - 9 at%,

Cu: w = 0 - 1.5 at%.

9. (Previously presented) The frequency separating filter according to claim 8, wherein the following relationships apply:

Fe: x = 83 - 91 at%,

M: y = 7 at%,

B: z = 3 - 9 at%,

Cu: w = 0 - 1.5 at%.

- 10. (Previously presented) The frequency separating filter according to claim 1, wherein the alloy has the composition  $(Fe_{0.98}Co_{0.02})_{90-x}Zr_7B_{2+x}Cu_1$ , with x = 0 3, with the residual alloy component Co able to be replaced by Ni with appropriate equalization.
- 11. (Previously presented) The frequency separating filter according to claim 10, wherein x = 0.
- 12. (Previously presented) The frequency separating filter according to claim 4, wherein the alloy also has an element which is Co or Ni.
- 13. (Previously presented) The frequency separating filter according to claim 12, wherein the alloy also has Co<sub>b</sub> with

Co: b = 0 - 15 at%.

14. (Previously presented) The frequency separating filter according to claim 5, wherein the alloy also has Co<sub>b</sub> with

Co: b = 0 - 0.5 at%.